offered opportunities to attend fully funded graduate school and to train with civilian industry to enhance their skills in information systems operations.

Advanced civilian schooling

Opportunities for selection to the Army's fully funded graduate-level educational program are available to officers interested in pursuing advanced degrees. Graduate degrees are normally offered in areas that fill Army needs as well as support officer professional development requirements.

Graduate degrees that support the Signal Regiment include information systems management; telecommunications management; information technology management; joint command, control and communications; computer science; electrical engineering; computer systems engineering; and software engineering. A limited number of advanced degrees are offered in other disciplines based on Army requirements.

The Army's cooperative degree program enables selected officers to complete degree requirements concurrent with and following attendance at certain military courses. After completing a military course that qualifies for graduate credit, participating officers are granted up to six months of permissive temporary duty to complete degree requirements as a full-time student.

Officers who pursue advanced degrees on their own may apply for the Army's degree completion program, which allows up to 12 months to complete the degree at no cost to the government.

Training with Industry

The Training with Industry program was initiated in the 1970s in response to the Army's critical need for officers with state-of-the-art skills in industrial practices and procedures not available through military or civilian education programs. The first students participated exclusively in programs supporting the development of material acquisition and logistics management related skills. Today the TWI program has evolved to include training programs supporting market-

ing, public affairs, artificial intelligence, physical security, finance, computer science, information technology, tactical Internet and many other fields.

The Army's main objective in sponsoring TWI is to develop a group of soldiers experienced in higher-level managerial techniques and with an understanding of how their industry relates to specific functions of the Army. Once the TWI student is integrated back into an Army organization, he or she can use this information to improve the Army's ability to interact and conduct business with industry. Participants may also be exposed to innovative industrial management practices, techniques or procedures that may apply to and benefit the Army. A prime example of this would be the Signal Regiment's Warfighter Information Network, an architecture designed to use commercial-off-the-shelf equipment in fielding the 21st century's tactical and strategic communications systems.
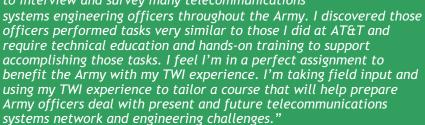
Currently the Signal Regiment has 10 officers participating in TWI at Air Force Space Command in Colorado; Army Spectrum Management Office, Alexandria, Va.; ITT, Fort Wayne, Ind.; TRW, Carson, Calif.; Boeing Computer Services, Seattle, Wash.; Armed Forces Communications and Electronics Association, Washington, D.C.; Rockwell International, Richardson, Texas; AT&T, Holmdel, N.J.; EDS, Plano, Texas; and Raytheon, Fort Wayne.
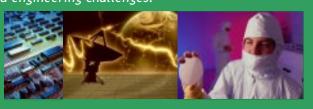

The Signal experience

CPT Horace Carney III
Reserve Officers' Training Corps
Purdue University
Bachelor of science in electrical engineering

Course development and design
Regimental Officer Academy
Fort Gordon, Ga.

"My Training with Industry assignment was with AT&T Government Markets Laboratories, Holmdel, N.J. My focus of study was the Warfighter Information Network proof of concept, with emphasis on Integrated Services Digital Network technology and the Definity G3I Private Branch Exchange manufactured by Lucent Technologies. I gained a lot of practical, hands-on experience in configuring ISDN trunks, ISDN phones, analog phones and routing tables. Now I'm responsible for the training development and design of the new Functional Area 24 course and Information Operations Leveler Course. To develop this course, I had to interview and survey many telecommunications systems engineering officers throughout the Army. I discovered those officers performed tasks very similar to those I did at AT&T and require technical education and hands-on training to support accomplishing those tasks. I feel I'm in a perfect assignment to benefit the Army with my TWI experience. I'm taking field input and using my TWI experience to tailor a course that will help prepare Army officers deal with present and future telecommunications systems network and engineering challenges."

CPT Horace Carney's hands-on experience in his Training with Industry assignment is helping the Signal Regiment gain new skills-refresher and technical-training courses.

Army officers train with industry in the computer, satellite, telecommunications or other modern technology fields.